

WEST

## Freeform Search

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graft near BMP ▲  
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## Search History

DATE: Wednesday, July 30, 2003 [Printable Copy](#) [Create Case](#)Set Name Query  
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DB=USPT; PLUR=YES; OP=OR

<u>L5</u>	graft near BMP	8	<u>L5</u>
<u>L4</u>	osteochondral graft near BMP	145	<u>L4</u>
<u>L3</u>	osteochondral graft same BMP	203	<u>L3</u>
<u>L2</u>	osteochondral graft next BMP	924264	<u>L2</u>
<u>L1</u>	osteochondral graft adj BMP	145	<u>L1</u>

END OF SEARCH HISTORY

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L5: Entry 1 of 8

File: USPT

Apr 16, 2002

DOCUMENT-IDENTIFIER: US 6371988 B1

TITLE: Bone grafts

Detailed Description Text (39):

In a preferred embodiment, an osteogenic composition is provided to the pores of the load bearing member. The bone growth inducing composition can be introduced into the pores in any suitable manner. For example, the composition may be injected into the pores of the graft. In other embodiments, the composition is dripped onto the graft or the graft is soaked in a solution containing an effective amount of the composition to stimulate osteoinduction. In either case the pores are exposed to the composition for a period of time sufficient to allow the liquid to thoroughly soak the graft. The osteogenic factor, preferably a BMP, may be provided in freeze-dried form and reconstituted in a pharmaceutically acceptable liquid or gel carrier such as sterile water, physiological saline or any other suitable carrier. The carrier may be any suitable medium capable of delivering the proteins to the spacer. Preferably the medium is supplemented with a buffer solution as is known in the art. In one specific embodiment of the invention, rhBMP-2 is suspended or admixed in a carrier, such as water, saline, liquid collagen or injectable BCP. The BMP solution can be dripped into the graft or the graft can be immersed in a suitable quantity of the liquid. In a most preferred embodiment, BMP is applied to the pores of the graft and then lyophilized or freeze-dried. The graft-BMP composition can then be frozen for storage and transport.

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## Search Results - Record(s) 1 through 8 of 8 returned.

☐ 1. Document ID: US 6371988 B1

L5: Entry 1 of 8

File: USPT

Apr 16, 2002

US-PAT-NO: 6371988

DOCUMENT-IDENTIFIER: US 6371988 B1

TITLE: Bone grafts

DATE-ISSUED: April 16, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Pafford; John	Germantown	TN		
Boyd; Lawrence M.	Memphis	TN		
McKay; William F.	Memphis	TN		
Ray, III; Eddie F.	Cordova	TN		
Van Hoeck; James E.	Cordova	TN		

US-CL-CURRENT: 623/17.11; 606/61, 623/17.16, 623/23.6, 623/23.63

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RIMC	Draw Desc	Image
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☐ 2. Document ID: US 6261586 B1

L5: Entry 2 of 8

File: USPT

Jul 17, 2001

US-PAT-NO: 6261586

DOCUMENT-IDENTIFIER: US 6261586 B1

TITLE: Bone graft composites and spacers

DATE-ISSUED: July 17, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
McKay; William F.	Memphis	TN		

US-CL-CURRENT: 424/423; 424/422, 424/426, 424/548, 424/549, 514/2, 523/115, 530/840, 606/61, 623/17.12

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RIMC	Draw Desc	Image
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☐ 3. Document ID: US 6053916 A

L5: Entry 3 of 8

File: USPT

Apr 25, 2000

US-PAT-NO: 6053916  
DOCUMENT-IDENTIFIER: US 6053916 A

TITLE: Sacroiliac implant

DATE-ISSUED: April 25, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Moore; Michael R.	Aurora	CO	80116	

US-CL-CURRENT: 606/61; 606/72, 606/73, 623/18.11

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWNC	Draw Desc	Image
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☐ 4. Document ID: US 6039762 A

L5: Entry 4 of 8

File: USPT

Mar 21, 2000

US-PAT-NO: 6039762  
DOCUMENT-IDENTIFIER: US 6039762 A

TITLE: Reinforced bone graft substitutes

DATE-ISSUED: March 21, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
McKay; William F.	Memphis	TN		

US-CL-CURRENT: 623/17.11; 606/60, 606/61

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWNC	Draw Desc	Image
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☐ 5. Document ID: US 5989289 A

L5: Entry 5 of 8

File: USPT

Nov 23, 1999

US-PAT-NO: 5989289  
DOCUMENT-IDENTIFIER: US 5989289 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Bone grafts

DATE-ISSUED: November 23, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Coates; Bradley J.	Rossville	TN		
Hoeck; James Van	Cordova	TN		
Poyner; Jeffrey	Atoka	TN		

US-CL-CURRENT: 623/17.16

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWNC	Draw Desc	Image
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☐ 6. Document ID: US 5972368 A

L5: Entry 6 of 8

File: USPT

Oct 26, 1999

US-PAT-NO: 5972368

DOCUMENT-IDENTIFIER: US 5972368 A

TITLE: Bone graft composites and spacers

DATE-ISSUED: October 26, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
McKay; William F.	Memphis	TN		

US-CL-CURRENT: 424/423; 424/422, 424/426, 514/2, 530/840

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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NUMC	Draw Desc	Image
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☐ 7. Document ID: US 5830493 A

L5: Entry 7 of 8

File: USPT

Nov 3, 1998

US-PAT-NO: 5830493

DOCUMENT-IDENTIFIER: US 5830493 A

TITLE: Bone-forming graft

DATE-ISSUED: November 3, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yokota; Shoji	Shizuoka			JP
Shimokawa; Seitaro	Shizuoka			JP
Sonohara; Ritsu	Shizuoka			JP
Okada; Akira	Shizuoka			JP
Takahashi; Koichiro	Tokyo			JP

US-CL-CURRENT: 424/426; 523/115, 623/23.61

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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NUMC	Draw Desc	Image
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☐ 8. Document ID: US 5364839 A

L5: Entry 8 of 8

File: USPT

Nov 15, 1994

US-PAT-NO: 5364839

DOCUMENT-IDENTIFIER: US 5364839 A

TITLE: Osteoinductive pharmaceutical formulations

DATE-ISSUED: November 15, 1994

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gerhart; Tobin N.	Brookline	MA		
Wang; Elizabeth A.	Carlisle	MA		
Kriz; Mary J.	Hudson	MA		

US-CL-CURRENT: 514/12; 514/21, 514/8, 530/350, 530/399

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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NEWS	5	Feb 26 NTIS now allows simultaneous left and right truncation
NEWS	6	Feb 26 PCTFULL now contains images
NEWS	7	Mar 04 SDI PACKAGE for monthly delivery of multifile SDI results
NEWS	8	Mar 24 PATDPAFULL now available on STN
NEWS	9	Mar 24 Additional information for trade-named substances without structures available in REGISTRY
NEWS	10	Apr 11 Display formats in DGENE enhanced
NEWS	11	Apr 14 MEDLINE Reload
NEWS	12	Apr 17 Polymer searching in REGISTRY enhanced
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NEWS	14	Apr 21 New current-awareness alert (SDI) frequency in WPIDS/WPINDEX/WPIX
NEWS	15	Apr 28 RDISCLOSURE now available on STN
NEWS	16	May 05 Pharmacokinetic information and systematic chemical names added to PHAR
NEWS	17	May 15 MEDLINE file segment of TOXCENTER reloaded
NEWS	18	May 15 Supporter information for ENCOMPAT and ENCOMPLIT updated
NEWS	19	May 19 Simultaneous left and right truncation added to WSCA
NEWS	20	May 19 RAPRA enhanced with new search field, simultaneous left and right truncation
NEWS	21	Jun 06 Simultaneous left and right truncation added to CBNB
NEWS	22	Jun 06 PASCAL enhanced with additional data
NEWS	23	Jun 20 2003 edition of the FSTA Thesaurus is now available
NEWS	24	Jun 25 HSDB has been reloaded
NEWS	25	Jul 16 Data from 1960-1976 added to RDISCLOSURE
NEWS	26	Jul 21 Identification of STN records implemented
NEWS	27	Jul 21 Polymer class term count added to REGISTRY
NEWS	28	Jul 22 INPADOC: Basic index (/BI) enhanced; Simultaneous Left and Right Truncation available
NEWS EXPRESS		April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003
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=> file medline, wpids, dgene, embase, uspatful  
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ENTRY	SESSION
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FULL ESTIMATED COST

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=> s articular cartilage regeneration and osteochondral graft and BMP  
L1 2 ARTICULAR CARTILAGE REGENERATION AND OSTEOCHONDRAL GRAFT AND BMP

=> d l1 ti abs ibib tot

L1 ANSWER 1 OF 2 USPATFULL on STN  
TI Device for regeneration of articular cartilage and other tissue  
AB An implantable device for facilitating the healing of voids in bone, cartilage and soft tissue is disclosed. A preferred embodiment includes a cartilage region comprising a polyelectrolytic complex joined with a subchondral bone region. The cartilage region, of this embodiment, enhances the environment for chondrocytes to grow articular cartilage; while the subchondral bone region enhances the environment for cells which migrate into that region's macrostructure and which differentiate into osteoblasts. A hydrophobic barrier exists between the regions, of this embodiment. In one embodiment, the polyelectrolytic complex transforms to hydrogel, following the implant procedure.

ACCESSION NUMBER: 2003:65819 USPATFULL  
TITLE: Device for regeneration of articular cartilage and other tissue  
INVENTOR(S): Brekke, John H., Duluth, MN, UNITED STATES  
Bradica, Gino, Claremont, NH, UNITED STATES  
Goldman, Scott M., Paoli, PA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003045943	A1	20030306
APPLICATION INFO.:	US 2002-199961	A1	20020719 (10)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1998-206604, filed on 7 Dec 1998, GRANTED, Pat. No. US 6264701 Division of Ser. No. US 1994-242557, filed on 13 May 1994, GRANTED, Pat. No. US 5981825		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	Alan D. Kamrath, Kensey Nash Corporation, 55 E. Uwchlan Avenue, Exton, PA, 19341		



NUMBER OF CLAIMS: 6  
EXEMPLARY CLAIM: 1  
LINE COUNT: 1263

L1 ANSWER 2 OF 2 USPATFULL on STN

TI Device for regeneration of articular cartilage and other tissue  
AB An implantable device for facilitating the healing of voids in bone, cartilage and soft tissue is disclosed. A preferred embodiment includes a cartilage region comprising a polyelectrolytic complex joined with a subchondral bone region. The cartilage region, of this embodiment, enhances the environment for chondrocytes to grow articular cartilage; while the subchondral bone region enhances the environment for cells which migrate into that region's macrostructure and which differentiate into osteoblasts. A hydrophobic barrier exists between said regions, of this embodiment. In one embodiment, the polyelectrolytic complex transforms to hydrogel, following the implant procedure.

ACCESSION NUMBER: 2002:55324 USPATFULL  
TITLE: Device for regeneration of articular cartilage and other tissue  
INVENTOR(S): Brekke, John H., Duluth, MN, UNITED STATES  
Goldman, Scott M., Paoli, PA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002032488	A1	20020314
APPLICATION INFO.:	US 2001-909027	A1	20010719 (9)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1998-206604, filed on 7 Dec 1998, GRANTED, Pat. No. US 6264701 Division of Ser. No. US 1994-242557, filed on 13 May 1994, GRANTED, Pat. No. US 5981825		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	Alan D. Kamrath, Kensey Nash Corporation, 55 E. Uwchlan Avenue, Exton, PA, 19341		
NUMBER OF CLAIMS:	56		
EXEMPLARY CLAIM:	1		
LINE COUNT:	1349		

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## Search Results - Record(s) 1 through 10 of 168 returned.

☐ 1. Document ID: US 6599520 B2

L14: Entry 1 of 168

File: USPT

Jul 29, 2003

US-PAT-NO: 6599520

DOCUMENT-IDENTIFIER: US 6599520 B2

TITLE: Method of inducing new bone growth in porous bone sites

DATE-ISSUED: July 29, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Scarborough; Nelson L.	Andover	MA		
Russell; James	Little Silver	NJ		

US-CL-CURRENT: 424/426

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">NMC</a>	<a href="#">Draw Desc</a>	<a href="#">Image</a>
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☐ 2. Document ID: US 6595998 B2

L14: Entry 2 of 168

File: USPT

Jul 22, 2003

US-PAT-NO: 6595998

DOCUMENT-IDENTIFIER: US 6595998 B2

TITLE: Tissue distraction device

DATE-ISSUED: July 22, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Johnson; Wes	Eden Praire	MN		
Lipschultz; Tyler	Minneapolis	MN		
Wales; Larry	Maplewood	MN		
Kieval; Robert	Medina	MN		

US-CL-CURRENT: 606/90; 606/61, 606/99, 623/17.16

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">NMC</a>	<a href="#">Draw Desc</a>	<a href="#">Image</a>
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☐ 3. Document ID: US 6592588 B1

L14: Entry 3 of 168

File: USPT

Jul 15, 2003

US-PAT-NO: 6592588

DOCUMENT-IDENTIFIER: US 6592588 B1

TITLE: Apparatus for osteochondral autograft transplantation

DATE-ISSUED: July 15, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bobic; Vladimir	Chester			GB
Morgan; Craig D.	Greenville	DE		
Schmieding; Reinhold	Naples	FL		
Burkhart; Stephen S.	San Antonio	TX		
O'Quinn; Philip S.	Naples	FL		

US-CL-CURRENT: 606/79; 600/567, 606/167, 606/184

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Image
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☐ 4. Document ID: US 6591581 B2

L14: Entry 4 of 168

File: USPT

Jul 15, 2003

US-PAT-NO: 6591581

DOCUMENT-IDENTIFIER: US 6591581 B2

TITLE: Method for preparing and inserting round, size specific osteochondral cores in the knee

DATE-ISSUED: July 15, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Schmieding; Reinhold	Naples	FL		

US-CL-CURRENT: 53/396; 128/898, 623/11.11, 623/16.11, 623/23.61, 623/908, 700/213

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC	Draw Desc	Image
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☐ 5. Document ID: US 6590059 B2

L14: Entry 5 of 168

File: USPT

Jul 8, 2003

US-PAT-NO: 6590059

DOCUMENT-IDENTIFIER: US 6590059 B2

TITLE: Bioerodible polyorthoesters from dioxolane-based diketene acetals

DATE-ISSUED: July 8, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ng; Steven Y.	San Francisco	CA		
Heller; Jorge	Woodside	CA		

US-CL-CURRENT: 528/220; 424/422, 424/425, 424/426, 424/451, 424/458, 424/486,

[528/271](#), [528/310](#), [528/354](#), [528/361](#), [528/403](#), [528/406](#), [528/422](#), [528/73](#), [528/74](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 6. Document ID: US 6585666 B2

L14: Entry 6 of 168

File: USPT

Jul 1, 2003

US-PAT-NO: 6585666

DOCUMENT-IDENTIFIER: US 6585666 B2

TITLE: Arthroscopic diagnostic probe to measure mechanical properties of articular cartilage

DATE-ISSUED: July 1, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Suh; Jun-kyo	Pittsburgh	PA		
Fu; Freddie H.	Pittsburgh	PA		
Youn; Inchan	Pittsburgh	PA		

US-CL-CURRENT: [600/587](#); [600/443](#), [600/449](#), [600/459](#), [600/462](#), [702/41](#), [702/43](#), [73/573](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 7. Document ID: US 6585647 B1

L14: Entry 7 of 168

File: USPT

Jul 1, 2003

US-PAT-NO: 6585647

DOCUMENT-IDENTIFIER: US 6585647 B1

TITLE: Method and means for synthetic structural imaging and volume estimation of biological tissue organs

DATE-ISSUED: July 1, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Winder; Alan A.	Westport	CT	06880	

US-CL-CURRENT: [600/437](#); [128/916](#), [600/443](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 8. Document ID: US 6576237 B1

L14: Entry 8 of 168

File: USPT

Jun 10, 2003

US-PAT-NO: 6576237

DOCUMENT-IDENTIFIER: US 6576237 B1

TITLE: Vertebrate tissue pattern-inducing proteins, and uses related thereto

DATE-ISSUED: June 10, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ingham; Philip W.	Summertown			GB
McMahon; Andrew P.	Lexington	MA		
Tabin; Clifford J.	Cambridge	MA		
Bumcrot; David A.	Belmont	MA		
Marti-Gorostiza; Elisa	Brookline	MA		

US-CL-CURRENT: 424/158.1; 530/350, 530/388.1, 530/389.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 9. Document ID: US 6575986 B2

L14: Entry 9 of 168

File: USPT

Jun 10, 2003

US-PAT-NO: 6575986

DOCUMENT-IDENTIFIER: US 6575986 B2

TITLE: Scaffold fixation device for use in articular cartilage repair

DATE-ISSUED: June 10, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Overaker; David W.	Annandale	NJ		

US-CL-CURRENT: 606/151; 411/508, 606/213, 606/72

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RMK	Draw Desc	Image
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☐ 10. Document ID: US 6573101 B1

L14: Entry 10 of 168

File: USPT

Jun 3, 2003

US-PAT-NO: 6573101

DOCUMENT-IDENTIFIER: US 6573101 B1

TITLE: Compositions for receptor/liposome mediated transfection and methods of using same

DATE-ISSUED: June 3, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Goomer; Randal S.	La Costa	CA		

US-CL-CURRENT: 435/458; 424/450

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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<u>L12</u>	articular cartilage regeneration same osteochondral graft same BMP	11529	<u>L12</u>
<u>L11</u>	19 and L10	194	<u>L11</u>
<u>L10</u>	articular cartilage regeneration same osteochondral graft	51664	<u>L10</u>
<u>L9</u>	osteochondral graft same BMP	203	<u>L9</u>
<u>L8</u>	17 and osteochondral graft	43057	<u>L8</u>
<u>L7</u>	articular cartilage regeneration and l4	11665	<u>L7</u>
<u>L6</u>	12 and L5	869	<u>L6</u>
<u>L5</u>	13 and L4	1495	<u>L5</u>
<u>L4</u>	BMP	2099	<u>L4</u>
<u>L3</u>	osteochondral grafts and growth factor	596848	<u>L3</u>
<u>L2</u>	articular cartilage regeneration	54771	<u>L2</u>
<u>L1</u>	5700774.pn.	1	<u>L1</u>

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<u>L13</u>	articular cartilage regeneration adj osteochondral graft adj BMP	11508	<u>L13</u>
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<u>L8</u>	17 and osteochondral graft	43057	<u>L8</u>
<u>L7</u>	articular cartilage regeneration and l4	11665	<u>L7</u>
<u>L6</u>	12 and L5	869	<u>L6</u>
<u>L5</u>	13 and L4	1495	<u>L5</u>
<u>L4</u>	BMP	2099	<u>L4</u>
<u>L3</u>	osteochondral grafts and growth factor	596848	<u>L3</u>
<u>L2</u>	articular cartilage regeneration	54771	<u>L2</u>
<u>L1</u>	5700774.pn.	1	<u>L1</u>

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